

























Step Fou	r Example	•
 Start At T 	he End	
–What Is The End? Costs		
	Material	Equipment
	Energy	Tooling
	Labor	Overhead
		Building
■Pick An E —For Exa ■How Can —How Ma	ndpoint mple, Materi That Be Bro iny Do I Need	ial Cost For Blanking ken Down: d x How Much Does Each Cos









Material Cost Blanking - 3

 Satisfactory Endpoints –Production Volume (PV) 	-Blanks Produced / Year = Good Blanks + Rejects - effective PV _{Blanking} = PV _{Blanking} + Rejects · Can model Rejects as % of total production -
–Coil Mass	$- \text{ effPV}_{B} = PV_{B} + R \times \text{ effPV}_{B}$
–Coil Price (\$/kg)	$- effPV_B = PV_B(1 - R)$
$-L_c, W_c$. But what is PV _B ?
–Unusable Length	 Assume that PV_B equals Total Stampings Produced / Year (i.e., effPV_{Stamping})
–L _B , W _B	
–Reject Rate (R)	– effPV _i = effPV _{i+1} (1 - R)
	 For last step, substitute PV for effPV_{i+1}
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Material Cost Blanking - 4		
Satisfactory Endpoints	-Value of Scrap = Quantity of Scrap X Price of Scrap	
 Production Volume (PV) Coil Mass Coil Price (\$/kg) L_c, W_c Unusable Length L_B, W_B 	 -Quantity of Scrap = Mass of Coils Purchased Mass of Good Blanks We know Mass of Coils Need Mass of Good Blanks. Know Numbér of Good Blanks, Need Mass of Blanks Given blank length and width, only need thickness_B -Given This Set Of Information We Can Calculate T 	
–Reject Rate (R) –Scrap Price	Annual Material Cost For Blanking . Remember, convert ot unit cost by dividing by PV	
-thickness _B		



































